595505

Rec'd PCT/PTO 2 8 FEB 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(54) Title: METHODS FOR DYNAMIC BANDWIDTH ALLOCATION AND QUEUE MANAGEMENT IN ETHERNET PASSIVE OPTICAL NETWORKS
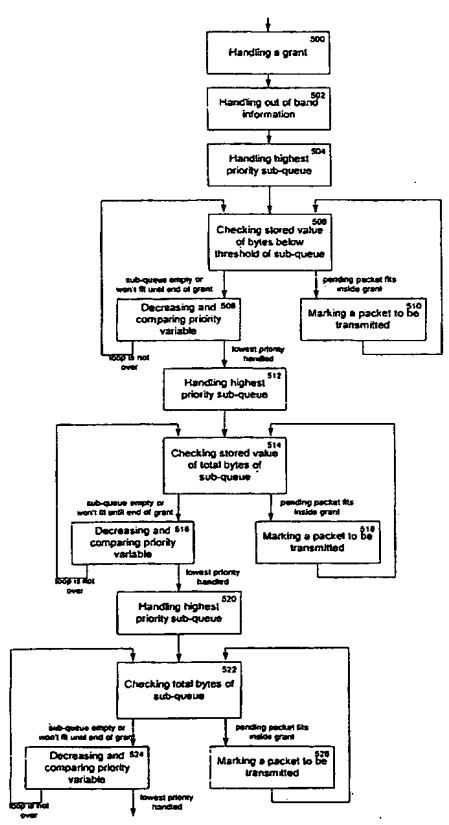
(57) Abstract: In a passive optical network, dynamic bandwidth allocation and queue management methods and algorithms, desgiend to avoid fragmentation loss, guarantee that a length of a grant issued by an OLT will match precisely the count of bytes to be transmitted by an ONU. The methods include determining an ONU uplink transmission egress order based on a three-stage test, and various embodiments of methods for ONU report threshold setting.

WO 2004/025903 A2